

- NOTES:
- THIS DRAWING DEFINES THE OVERALL GEOMETRY AND PERFORMANCE SPECIFICATIONS OF AIR CONDITIONER EVAPORATORS APPLIED FOR AIRCRAFT USE AND CONSTITUTES THE ACCEPTANCE CRITERIA THEREOF. CONFORMANCE OF HARDWARE TO THESE REQUIREMENTS IS ACCEPTABLE IN LIEU OF VENDER DOCUMENTATION.
 - ACCEPTED SOURCE: ENVIRO SYSTEMS INC.
4000 HIGHWAY 99 NORTH
SEMINOLE, OK, 74868
(405)-382-0731
 - P/N ES75203-10 IS REPLACEMENT MOTOR/CONTROLLER

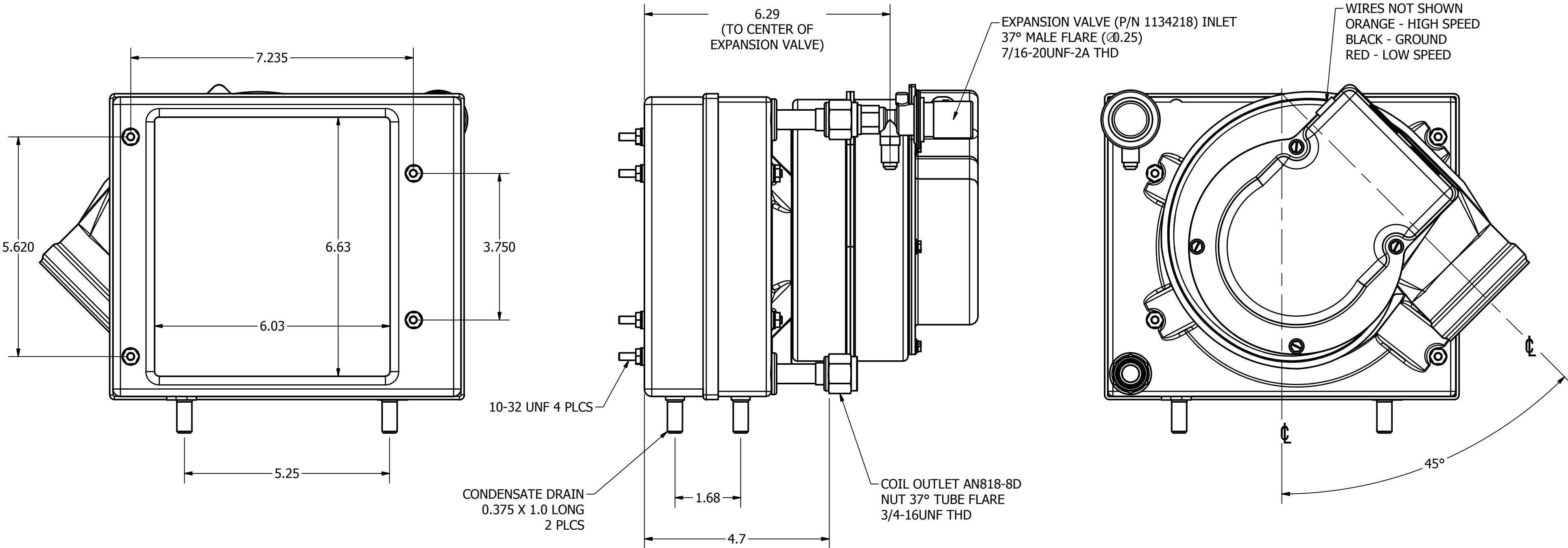
REVISION HISTORY					
SHEET	REV	DATE	DESCRIPTION	AUTHOR	CHECKED BY
1	A	3/23/17	ADDED MAX TEMP AND VOLTAGE LIMITS.	JT	LS
	B	5/18/17	CURRENT WAS SEE GRAPH	EW	LS
1,2	C	7/12/18	FILLED IN AUTHOR, CHECKED BY INITIALS REV A & B; ADDED MOTOR CONTROLLER TO SHEET 2	ZA	MEH

EVAPORATOR P/N

ES75203-1

MFR'R P/N

1134200-83



DESIGN SPECIFICATIONS

CPACTIY7000 BTUH (MIN)

AIR INLET CONDITIONS80°F (DB) & 67° (WB)

REFRIGERANTR-134a

COIL REFRIG. PRESS. DROP2 PSID

COIL AIR PRESS. DROP.47 IN. WATER @ 200 CFM

EXPANSION VALVE INLET CONDITIONSREFRIG. TEMP. -120°F

REFRIG. PRESS. -205PSIG

VOLTAGE24-32 VDC

AIRFLOWSEE GRAPH

CURRENT10A MAX

WEIGHT7.25 LBS MAX

MTBF5000 HRS

OVERVOLTAGE LIMIT30.4 VDC

UNDER VOLTAGE LIMIT10.3 VDC

OVERTEMP LIMIT88°C

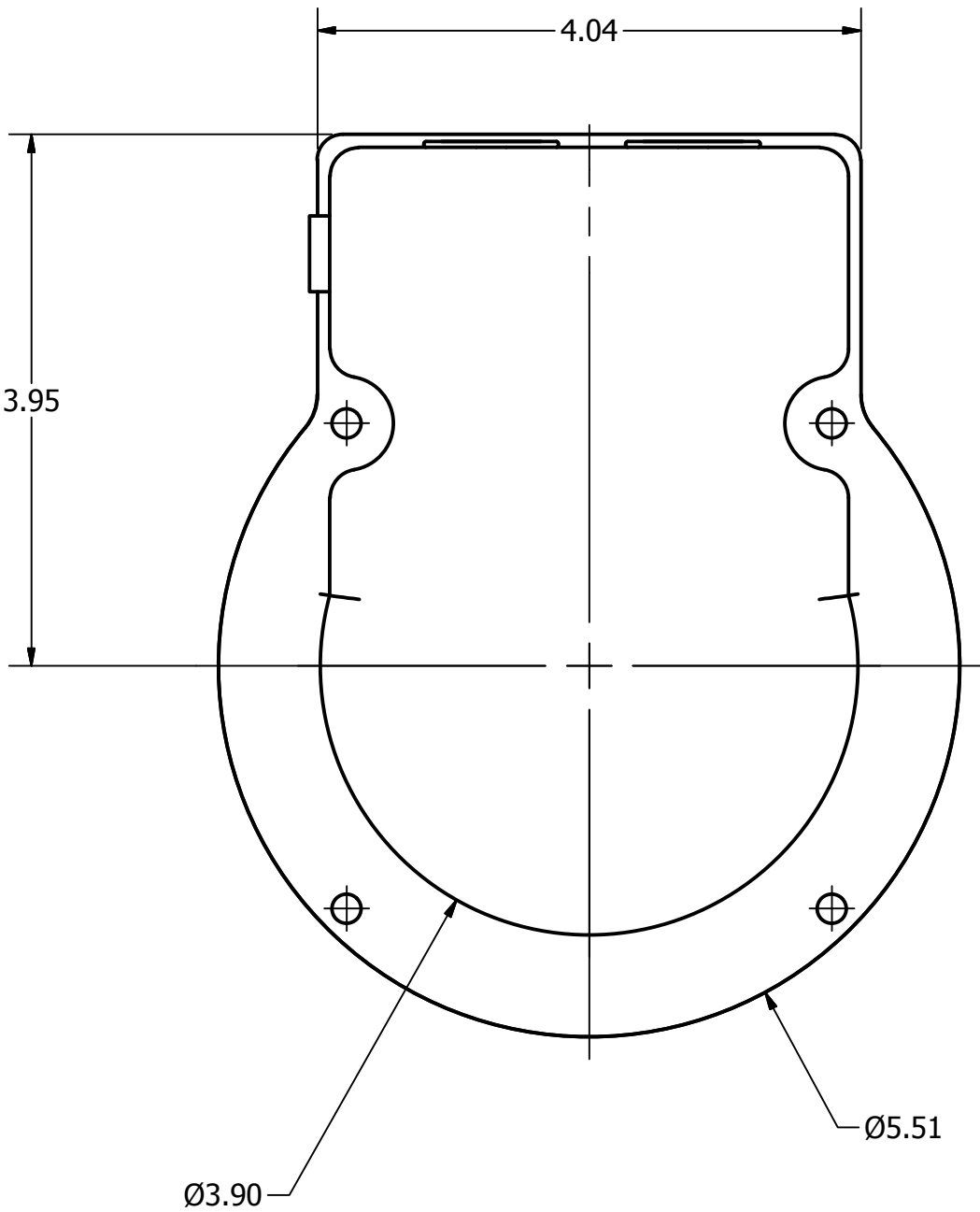
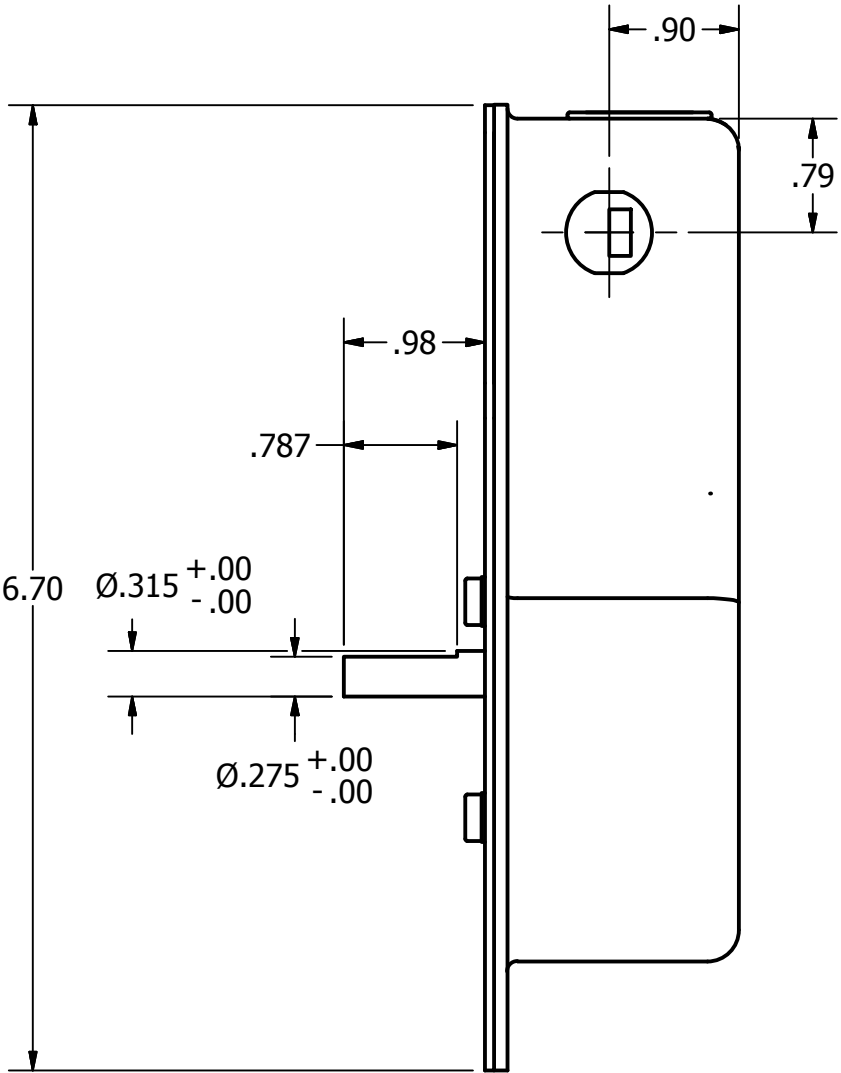
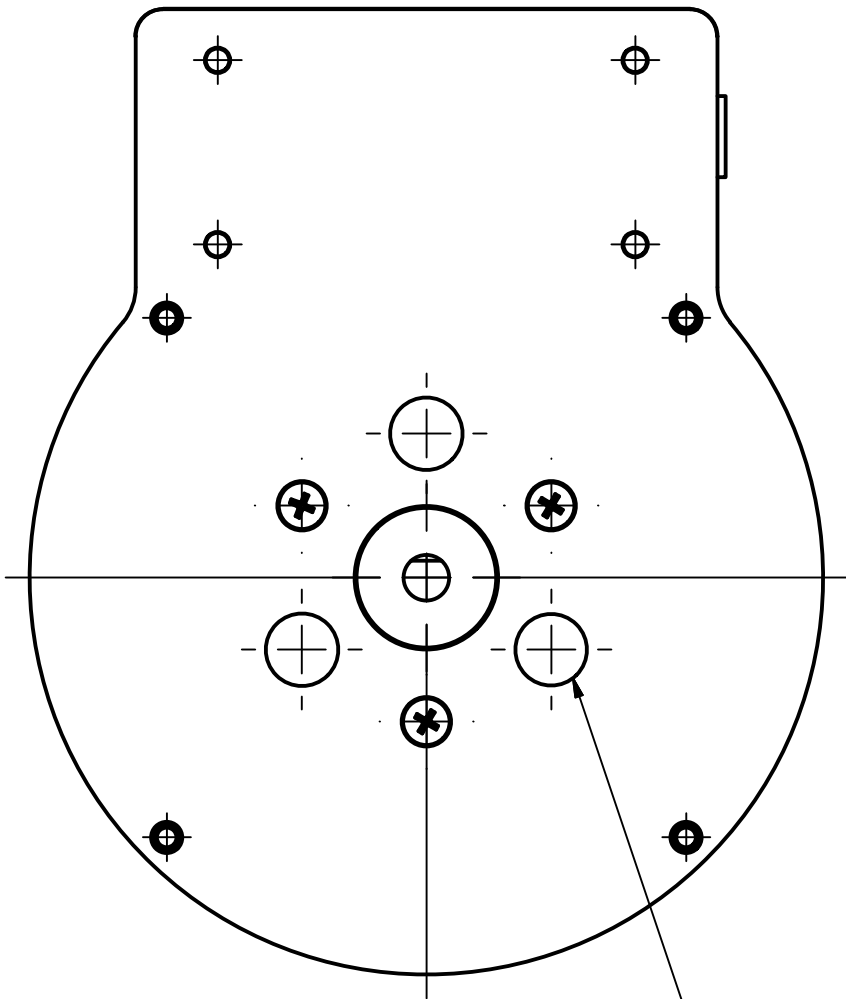
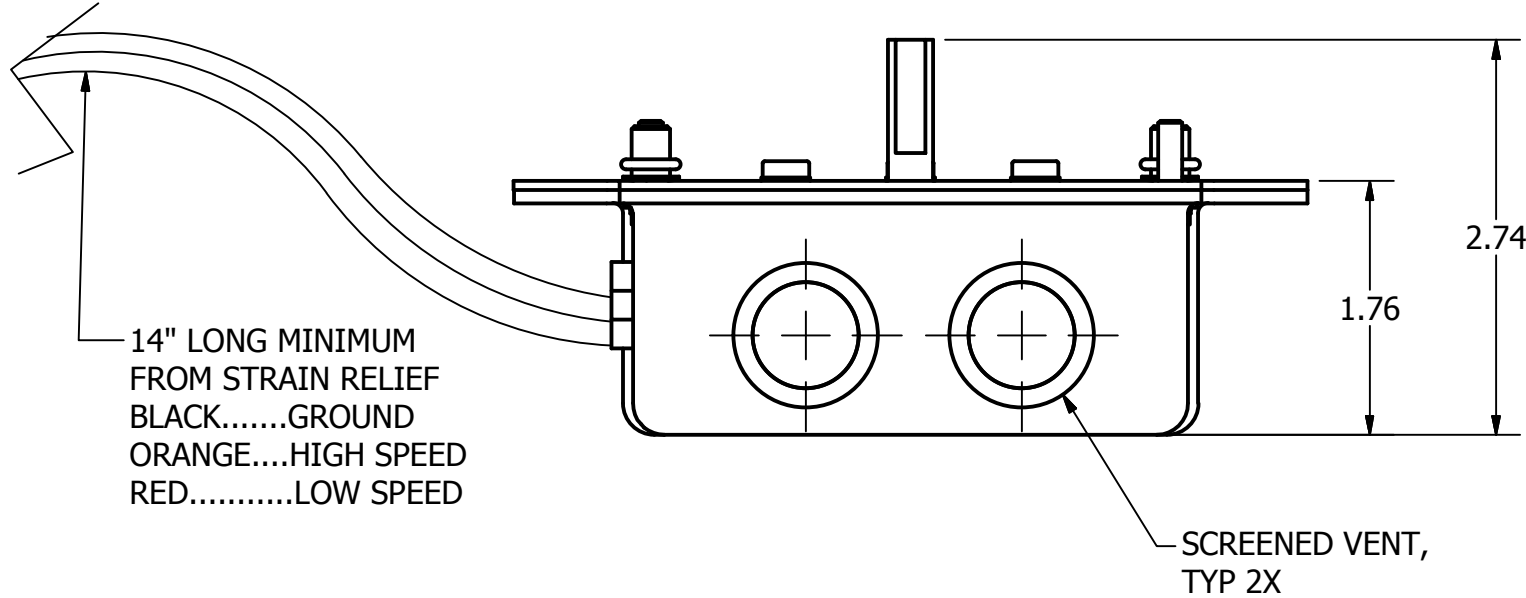
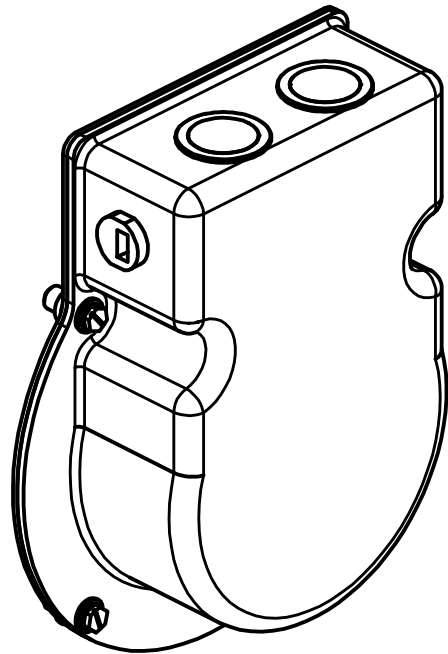
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PROTO

Paravion® Technology Inc.		TITLE EVAPORATOR		DRAWING NUMBER ES75203	
DIMENSIONS IN INCHES TOLERANCES EXCEPT WHERE NOTED: .X = ±.1 .XX = ±.05 .XXX = ±.010 ANGLES = ± 1°		DRAWN BY KEW	CHK'D BY	APRVD. BY	DATE 3/15/16
THREADS: INTERNAL: CLASS 2B EXTERNAL: CLASS 2A		DO NOT SCALE DRAWING		SHEET 1 OF 2	
3RD ANGLE PROJECTION		© 2017 PARAVION TECH. INC. PARAVION IS A TRADEMARK OF PARAVION TECHNOLOGY INC.		REV C	

MOTOR CONTROLLER P/N
ES75203-10

MFR'R P/N
1133210-5




- NOTES:
1. MOTOR COVER IS CONSTRUCTED OF HIGH IMPACT, FIRE RETARDANT AND SELF-EXTINGUISHING LEXAN F-000 WHICH MEETS F.A.R. 25.853a AND b. COVER COATED WITH COPPER EMI REDUCING PAINT.
 2. MOTOR BOTTOM PLATE IS CONSTRUCTED OF 6061-T6 ALUMINUM PER ASTM B-209 (QQ-A-250/11) WITH A CHEMICAL CONVERSION COAT PER MIL-C-5541, CLASS 1A, GOLD.
 3. UNIT MEETS THE FOLLOWING RTCA/DO-120D QUALIFICATION TEST REQUIREMENTS:
 - EMISSION OF RF ENERGY PER SECT. 21.0, CAT. M
 - AUDIO FREQUENCY CONDUCTED SUSCEPTIBILITY PER SECT. 18.0, CAT. Z, PARA. 18.3.1
 - INDUCED SIGNAL SUSCEPTIBILITY PER SECT. 19.0, CAT. Z
 - RADIO FREQUENCY SUSCEPTIBILITY (RADIATED AND CONDUCTED) ALSO MEETS HIGH INTENSITY RADIATED FIELD (HIRF) RULES PER SECT. 19.0, CAT. Z
 - LIGHTING INDUCED TRANSIENT SUSCEPTIBILITY PER SECT. 22.0 CAT. A2C3, TABLE 22-1, WAVE SET A, LEVEL 1
 - POWER INPUT PER SECT. 16.0, CAT. Z, PARA. 6.5.2 THRU 16.5.2.5, THRU 16.5.4.4
 - VOLTAGE SPIKE PER SECT. 17.0, CAT. A
 - MAGNETIC EFFECT PER SECT. 165.0, CAT. A
 - VIBRATION PER SECT. 8.0, CAT. S
 - SHOCK PER SECT. 7.0, CAT. B, PARA. 7.2.2
 - CRASH SAFETY PER SECT. 7.0, CAT. B, PARA. 7.3.1.1 AND 7.3.2, TABLE 7-1
 - TEMPERATURE/ALTITUDE PER SECT. 7.0, CAT. A2
 - TEMPERATURE VARIATION PER SECT. 5.0, AT. C, PARA. 5.3 AND 11
 - HUMIDITY PER SECT. 6.0, CAT. A, PARA. 6.3.1REFER TO ENVIRO QUALIFICATION TEST REPORT QTR04-106
ROTATION: CCW FACING MOTOR SHAFT.

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Technology Inc.
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TOLERANCES EXCEPT
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THREADS:
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EVAPORATOR				ES75203	
DRAWN BY	CHK'D BY	APPR'D BY	DATE	REV	ECO
KEW			3/15/16	C	
					
DO NOT SCALE DRAWING				SHEET	
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